

HYDRAULIC SYSTEM—Open-Center

Main Pump:

Type.....	2 variable-displacement axial-piston
System Pressure—Travel.....	4620 ± 150 psi (31 855 ± 1035 kPa)
System Pressure—Digging	4050 ± 150 psi (27,925 ± 1035 kPa)
Minimum Flow	28 gpm (106 L/min) used at 2500 psi (17237 kPa) and 2200 rpm

Steering Pump:

Type.....	Gear
System Pressure	1775 ± 25 psi (12 300 ± 175 kPa) at fast idle
System Crossover Relief Valve	2465 psi (17 000 kPa)
Minimum Flow	5.7 gpm (21.64 L/min) used at 1775 psi (12 300 kPa) and 2100 rpm

Pilot Pump:

Type.....	Gear
System Pressure	640 ± 70 psi (4410 ± 480 kPa) at fast idle
Minimum Flow	5.5 gpm (20.8 L/min) at 2200 rpm

RELIEF VALVE SETTINGS

Boom I (Head and Rod) Front Pump	4260 + 140 - 0 psi (29 372 + 965 - 0 kPa)
Arm I (Head and Rod) Rear Pump	4260 + 140 - 0 psi (29 372 + 965 - 0 kPa)
Bucket (Head and Rod) Front Pump	4770 + 140 - 0 psi (32 888 + 965 - 0 kPa)
Rear or Blade Stabilizer (Head and Rod) Rear Pump.....	4260 + 140 - 0 psi (32 888 + 965 - 0 kPa)
Swing Brake Valve Circuit Relief Valve Left and Right (Crossover Relief) Rear Pump.....	3340 ± 140 psi (23 030 ± 965 kPa)

CYCLE TIMES (At Fast Idle)

Function	New Machine	Max Allowable
Boom Raise	2.7 ± 0.3 sec	3.5 sec
Boom Lower	2.3 ± 9.3 sec	3.0 sec
Arm Out	2.1 ± 0.3 sec	2.8 sec
Arm In	3.3 ± 0.4 sec	4.2 sec
Bucket Roll-Out	2.2 ± 0.3 sec	2.9 sec
Bucket Roll-In	3.6 ± 0.3 sec	4.5 sec
Swing (3 Revolutions).....	12.5 ± 1.0 sec	16.2 sec
Stabilizer Extend	1.54 ± 0.3 sec	2 sec
Stabilizer Retract.....	1.41 ± 0.3 sec	1.83 sec

LUBRICANTS

See front of this book for the codes [].

CAPACITIES

	U.S.	Metric
Fuel Tank	66 gal	250 L
Cooling System	22 qt	21 L
Engine Oil w/ Filter [E]:		
(S.N. —137161)	15 qt	14.2 L
(S.N. 137162—)	13 qt	13 L
Hydraulic System [C]	19 gal	72 L
Swing Gear (See Operators Manual)	20 lb	9 kg
Swing Gearbox [J]	3.4 qt	3.2 L
Transmission [J]	5.3 qt	5.0 L
Front Axle Case [J]	6.4 qt	6.0 L
Rear Axle Case [J]	9.0 qt	8.5 L
Hub Reduction Case (Each) [J]	1.6 qt	1.5 L

PNEUMATIC SYSTEM

Governor Cut-In Pressure	94 psi (648 kPa)
Air System Priority Pressure Setting	46.4 psi (320 kPa)